

CHEMICAL AND BIOLOGICAL AGENT SENSOR ARRAY DETECTORS

ABSTRACT OF THE DISCLOSURE

Chemical and biological detector systems, devices and apparatus. Such devices may be portable and wearable, such as badges, that are analyte-general, rather than analyte-specific, and which provide an optimal way to notify and protect personnel against known and unknown airborne chemical and biological hazards. The devices of the present invention are advantageously low-cost, have low-power requirements, may be wearable and are designed to detect and alarm to a general chemical and biological threat. A sensor device of the present invention in one embodiment includes two or more sensor devices, a processing module coupled to each of the sensor devices and configured to process signals received from each of the two or more sensor devices to determine an environmental state; and a communication module that communicates information about the environmental state to a user.

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